SUBMITTAL

ELECTRIC UNIT HEATER
(EKB Series)

Unit heater

EKB
SERIES

1000 to 5000 WATTS

UL LISTED
E41422

CFM: 340
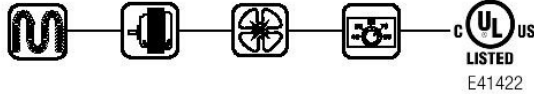
FEATURES:

- Quick heat element
- Cast aluminum motor
- Aluminum fan blade
- Built in thermostat 40°F/ 4°C- 80°F/ 26°C degrees
- Smart Limit overheat protection
- Powder coated finish
- Standard color: black
- Tested to UL standards for safety
- Element safety sensor on each element
- Swivel bracket
- Wall or ceiling mount
- Permanent mounting
- CFM 340

The EKB is designed for :

lower intitial cost and minimal control options - simple heating at an affordable price point.

Thermostat will control from 40°F/4C°-80°F/26°C Bracket can be wall or ceiling mounted at a minimum of 6 feet above the floor. Good air distributing and comfort is achieved by swiveling bracket to specific work area.

MODEL	VOLTS/PHASE	WATTS 220	AMPS 220	MOTOR	CFM
EKB2250TB	220 1-Phase	5000	22.7	6W 50/60 HZ	340
EKB2240TB	220 1-Phase	4000	18.2	6W 50/60 HZ	340
EKB2230TB	220 1-Phase	3000	13.6	6W 50/60 HZ	340
EKB2230TB	220 1-Phase	2600	11.8	6W 50/60 HZ	340
EKB2220TB	220 1-Phase	2000	9.1	6W 50/60 HZ	340
EKB2216TB	220 1-Phase	1680	7.6	6W 50/60 HZ	340
EKB2208TB	220 1-Phase	840	3.8	6W 50/60 HZ	340
-T	Factory installed thermostat				
-B	Universal wall and ceiling mounting bracket				

ENGINEERING SPECIFICATIONS:

Heating Elements: Rigid Muscovite Mica construction with 80-20 Ni-Chrome heating wire provides quick heating without cold air start ups, heat is wiped from elements as fans slows to a stop. Manual reset Safety sensor on each element.

Thermostat: (optional) Factory installed Single pole operation range 40°F / 4°C - 80°F / 26°C

Unit Bearing Motor: Permanently lubricated, Cast Aluminum, 6-watt output 4 pole motor, 1550 rpm, 20 cc oil supply.

Smart Limit Protection: Manual reset limit protects the heater from restarting if the fan stops operating. Manual reset is preformed by turning off the heater and allowing the limit to cool for 15 minutes and then turning back on, Secondary limits are mounted on each element and have the same feature to reset.

Mounting Bracket: optional 20 ga steel multiple mounting options - ceiling or wall.

Case: 22 ga steel, inlet and outlet perforation, special side and top safety air inlets.

Exterior: Durable textured epoxy powder coated finish.

Approval: cULus (E41422)

CFM: 340 Maximum

Tested under **UL2021**

DIMENSIONS:

EKB Unit Heater

Heater case size
w/o bracket
Height: 13 5/8 in. / 34.6 cm
Width: 10 3/8 in./ 26.35 cm
Depth: 9 3/9 in. / 24.76 cm

Maximum Outside Dims
W/bracket and stat
Height: 18 3/4 in / 47.62 cm
Width: 11 3/8 in. / 28.90 cm
Depth: 10 5/8 in./26.98 cm

Bracket Information

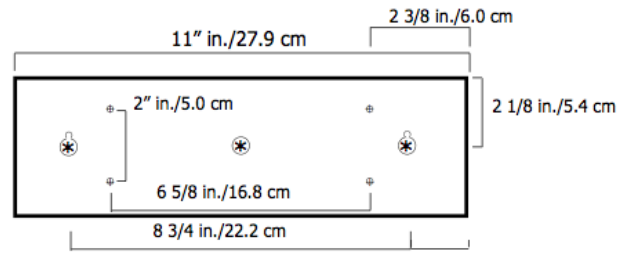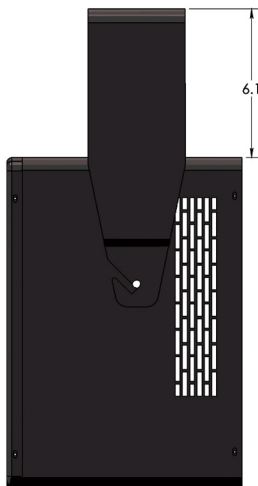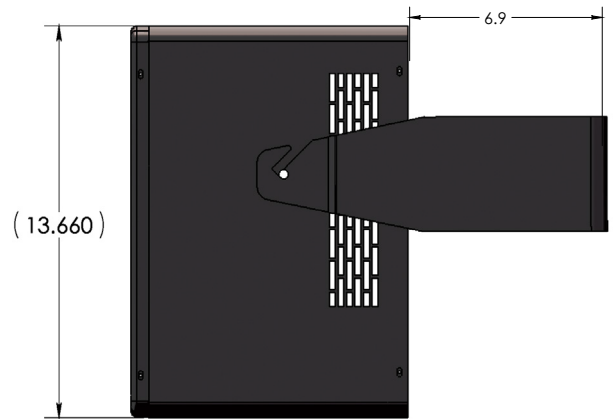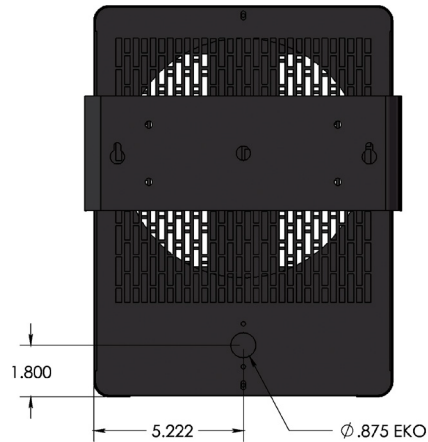Hole Sizes
* 1/2 in. /1.27 cm 3 holes
+ 1/4 in. /.63 cm 4 holes

2 3/8 in./6.0 cm
11" in./27.9 cm
2" in./5.0 cm
2 1/8 in./5.4 cm
6 5/8 in./16.8 cm
8 3/4 in./22.2 cm
1 1/8 in./2.85 cm

Fig 2.2

6.9

(13.660)

(10.445)

1.800

5.222

∅ .875 EKO

6.1

Terminal Board Connections
Power Lugs

Model: EKB

EKB   L1   L2/N   KING MFG. CO.

LIMIT   STAT

Light

LIMIT E2   E2 STAT

Hazard   Pilot

MOTOR E1   E1 MOTOR   PART# EKB-TB

Thermostat

E4
E3
Elements

Motor

L1 Power
L2/N Power or Neutral
Limit: To limit
Motor: To Motor
E1: Element 1
E2: Element 2
E3: Self hold limit
E4: Self hold limit
Stat: Thermostat

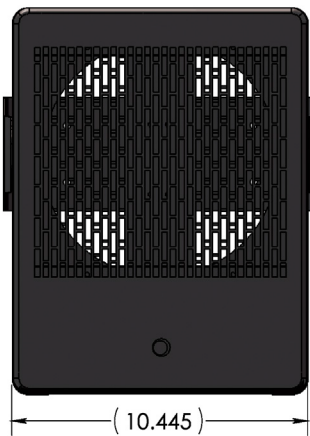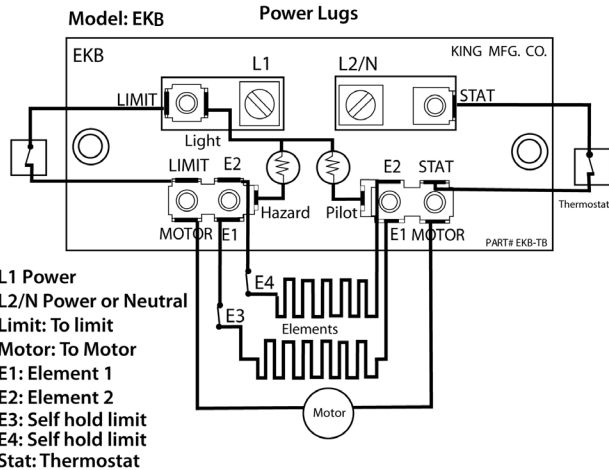**UL ONLINE CERTIFICATIONS DIRECTORY**

KKWS.E41422
Air Heaters, Room, Fixed and Location Dedicated

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Air Heaters, Room, Fixed and Location Dedicated

See General Information for Air Heaters, Room, Fixed and Location Dedicated

KING ELECTRICAL MFG CO   E41422
9131 10TH AVE S
SEATTLE, WA 98108 USA

Fixed: Wall surface insert or mounted type, Models*a KCC2-10, -15, -20; Models KCC3-25, -30, KCC4-40, -45, -50, with or without suffix T.

Fixed: Commercial/Industrial, Wall mounted, Models*h KFUH-5, -6, -10, -12, -15, -15-3, -18, -18-3, -20, -22, -25, -30, -30-3, -34, -34-3, -35.

Fixed: Commercial/Industrial Ceiling or Wall Mounted Type, Models*b KB2, KB3, KB4, KB5, KB6, KB7, KB7.5, KB8, KB9, KB10, KB11, KB12, KB13, KB14, KB15, KB16, KB18, KB20, KB21, KB22, KB24, KB27, KB30, KB33, KB36, KB42, KB48, KB54, KB60, KB66, followed by -01, -02, -03, -41, -42, -43, -71, -72, -81, -82, -83, may or may not be followed by -MP, may or may not be followed by T.

Fixed: Wall insert, Models KB3-43MP, -83MP, K85-43MP, -83MP, KB18-42, -82, KB20-42, -82, KB22-42, -82, KB5-01, KB10-02, KB15-03, KB3.71, KB4-71, KB5-71, KB6571, KB8-71, KB9-72, KB10-72, KB12-72, KB13-72, KB14-72; Models*d RW1225*a, -1250*a, -1275*a, -2425*a, -2450*a, -2475*a, -12100*a, -24100*a, with or without suffix T, for use with Cat. No. RW1C wall can; Models*d WHF1205/10, WHF1207/10, WHF2405/10, WHF2407/15, WHF2410/20, WHF2412/24, WHF10, WHF15, WHF20, WHF24, PAW1215, PAW2422, PZ1215, PZ2422.

Fixed: Wall insert type , Models*d PAW1215, PAW2022, PAW2422, PZ1215, PZ2022, PZ2422, DEC1215, DEC2022, DEC2422 with or without suffix letters "PRO" or "DEC" for use with Cat. No. PAWIC wall can .

Fixed: Wall insert or surface mounted type, Models*g KCF220-1, KCF330-1, KCF440-1, KCF450-1; Model *d LPW1227, LPW2045, LPW2445, LPW2740, with or without suffix T, for use with Cat. No. LPW wall can.

Fixed: Wall insert type, Models*d W1205, -07, -10, -12, -15, W2405, -07, -10, -12, -15, -20, -24, for use with Cat. No. W.

Fixed: Wall surface mounted type, Models*e KCV-1202, -2402, -1204, -2404, -1206, -2406, -1207, -2407, -1209, -2409, -1210, -2410, -2412, -1215, -2415, -1218, -2418.

Fixed: Kick space type, Models*f KT1205, KT1207, KT2405, KT2407, KT2410, with or without suffix numerals 10, 15 or 20, KT10, KT15, KT20, with or without prefix letter T.

Fixed: Kick space type, Models KTW, followed by 1215, 2015, 2215, or 2415, may be followed by T1, T2, DS, P, or S.

Fixed: Wall mounted type, Models SL1215*i, SL2422*i.

Fixed: Ceiling Insert type , Models WHFC1205/10*j, WHFC1207/15*j, WHFC2405/10*j, WHFC2407/15*j, for use with Cat. No. WHFCIC ceiling case.

Wall or Ceiling mounted type, Model Series EKB, followed by 12, 20, 22 or 24, followed by 01 through 50, followed by T, B, D, CB.

*a For supply wiring, use wire suitable for at least 75 C.

*b To be installed at least 6 ft from floor and 6 in. from adjacent walls.

*d To be installed not less than 4 in. from floor and 6 in. from adjacent walls.

*e To be installed not less than 6 feet from floor and 2 1/2 in. from ceiling.

*f May be installed with zero clearance to walls and floor.

*g To be installed not less than 1 in. from floor and 6 in. from adjacent wall surfaces.

*h To be installed not less than 1 1/2 in. from sides, 1 in. from back and 6 in. to top.

* i to be installed not less than 6 inches from adjacent wall and 0 inches from floor.

*j to be installed not less than 16 in. from vertical wall.

Last Updated on 2012-12-11

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